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## Claims

- 1. A circuit board support rack comprising:
- -a frame;
- -a board engagement platform fixed with respect to the frame;
- -a board retention member spaced from the engagement platform by a dimension;
  - -a first adjustment mechanism coacting with the frame and the retention member and permitting selection of the dimension; and
  - -a second adjustment mechanism on the retention member, such second adjustment mechanism being mounted for movement toward and away from the engagement platform while holding the dimension substantially constant.
    - 2. The rack of claim 1 wherein:
    - -the frame includes plural openings for attaching the rack to a vibratory table; and
    - -the first adjustment mechanism includes apertures spaced from one another, thereby permitting the dimension to be selected in predetermined increments.
    - 3. The rack of claim 2 wherein:
    - -the dimension is a linear dimension measured along a first axis; and -the apertures extend along a second axis substantially parallel to the first axis.
    - 4. The rack of claim 3 wherein:
    - -the board engagement platform includes a linear engagement groove extending along a third axis; and
    - -the third axis is substantially perpendicular to the first axis.

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- 5. In combination, a printed circuit board having first and second edges and a rack supporting the board, the rack comprising:
  - -a frame;
  - -a platform mounted with respect to the frame and engaging the first edge;
  - -a board retention member spaced from the engagement platform by a dimension;
  - -a first adjustment mechanism coacting with the frame and the retention member and maintaining the dimension; and
  - -a second adjustment mechanism on the retention member and engaging the second edge;

## and wherein:

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- -the platform and the second adjustment mechanism exert compressive force on the board.
- 6. The combination of claim 5 wherein the second adjustment mechanism includes:
  - -a clamping screw threaded to the retention member; and
  - -a locating pin mounted to the clamping screw for relative movement with respect to such screw, the pin including a notch engaging the second edge of the printed circuit board.
  - 7. The combination of claim 5 wherein:
  - the retention member includes a plurality of second adjustment mechanisms,
  - -each second adjustment mechanism has a respective clamping screw;
  - -each clamping screw is threaded to the retention member; and
    - -each clamping screw has a respective locating pin mounted thereto.

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- 8. The combination of claim 7 wherein:
- -the clamping screws are first, second and third clamping screws;
- -the locating pins are first, second and third locating pins mounted on the first, second and third clamping screws, respectively; and
- -each locating pin is rotationally movable with respect to the clamping screw on which it is mounted.
  - 9. The combination of claim 5 wherein:
  - -the board has a substantially planar surface; and
- -the compressive force is exerted substantially parallel to the planar surface.
  - 10. The combination of claim 5 wherein:
  - -the board has a substantially planar surface; and
  - -the compressive force is exerted substantially coincident with the planar surface.
  - 11. In combination, a plurality of printed circuit boards, a rack supporting the boards and a vibratory table supporting the rack and the boards, and wherein:
    - -the rack includes a platform and a board retention member exerting compressive force on the boards;
    - -the table includes a mounting surface having a plurality of holes formed therein;
    - -the rack includes a frame having plural openings formed therein; and
    - -fasteners extend through the openings into the holes, thereby securing the rack and the boards to the table.

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## 12. The combination of claim 11wherein:

- -the frame includes a pair of vertical, longitudinally-spaced end panels having a pair of laterally-spaced rails therebetween;
- -the platform and the board retention member are supported between the end panels in spaced relationship to one another and the printed circuit boards are clamped therebetween; and
- -the openings are in the rails.

## 13. The combination of claim 12 wherein:

- -the board retention member has first and second pluralities of clamping screws threaded thereto; and
  - -each clamping screw of the first plurality of clamping screws has a relatively-movable locating pin coupled thereto.
- 15 14. The combination of claim 12 wherein:
  - -the board retention member has first and second pluralities of clamping screws threaded thereto;
  - -each clamping screw of the first plurality and of the second plurality of clamping screws has a locating pin coupled thereto;
- 20 -the boards comprise first and second boards;
  - -the first board is clamped between the platform and the first plurality of clamping screws; and
  - -the second board is clamped between the platform and the second plurality of clamping screws.

15. The combination of claim 12 wherein:

- -the end panels are first and second end panels having, respectively, first and second rows of vertically-spaced-apart apertures;
- -first and second screws extend, respectively, through an aperture of the first and second rows and engage the board retention member.

- 16. The combination of claim 15 wherein:
- -the platform and the board retention member are spaced apart by a first dimension;
- -the platform and the locating pins of the first plurality of clamping screws are spaced apart by a second dimension;
- -the first and second rows of apertures and the first and second screws comprise a first adjustment mechanism whereby the first dimension may be selected in predetermined increments; and
- -the first plurality of clamping screws comprises a second adjustment mechanism whereby the second dimension may be selected in a continuum.